

QUESTION # >>>			1		2
EPA-Assigned Tank Vapor Capture System #	Tank Battery Location Name	CDPHE ID (AIRS AFS #)	Is the EPA- Assigned Tank Vapor Capture System # correct? [Yes or No]	If incorrect, provide correct identification and explain. [Add rows as necessary to include all associated tank battery locations with a common tank vapor capture system]	Did PDC conduct a design analysis of the tank vapor capture system & control device prior to its construction? [Yes or No]

2			3			4
	<p>If yes, what was the date the analysis was conducted? [Date]</p>	<p>Supply all documents supporting the design analysis of each tank vapor capture system and control device. [list the filenames if provided electronically or an Attachment name identifier if hard copy]</p>	<p>Did PDC conduct a design analysis of the tank vapor capture system & control device since its construction? [Yes or No]</p>	<p>If yes, what was the date the analysis was conducted? [Date]</p>	<p>Supply all documents supporting the design analysis of each tank vapor capture system and control device. [list the filenames if provided electronically or an Attachment name identifier if hard copy]</p>	<p>For tank vapor capture systems analyses not already provided in response to Requests 2 & 3, conduct an analysis and supply all input parameters, calculations and supporting documents of the design analysis of each tank vapor capture system and control device. [list the filenames if provided electronically or an Attachment name identifier if hard copy]</p>

4		5(a)		5(b)	
	<p>Quantify the peak total emission flow due to flash emissions attributed with liquid dump events from the pressurized vessel upstream of the oil storage tanks, along with w/b/s emissions. [cubic feet/sec]</p>	<p>What is the flow capacity of the existing tank vapor capture system(s) and control device(s)? [cubic feet/sec]</p>	<p>Piping & instrumentation diagram of the process (wellhead(s) to control device). [list the filenames if provided electronically or an Attachment name identifier if hard copy]</p>	<p>If more than one oil storage tank is present within a tank vapor capture system, describe how oil flows between oil storage tanks.</p>	<p>Identify the gas gathering pipeline into which the tank battery location enters. [Name of P/L(s)]</p> <p>What is the maximum allowable operating pressure of that pipeline? [psig]</p>

5(c)			5(d)	5(d)(i)	5(d)(i)
Provide a list of the wells which flow to the initial separator(s). [Well name and API No.]	How is production from those wells set to flow to the initial separator(s) (e.g. based on time, pressure, other parameter(s), or a combination of these)?	Can more than one well flow to an initial separator concurrent with another well or wells?	Provide a description, name and tag # ID of the initial separator(s) (e.g. single stage, dual stage, dual coil, HLP, VGR, etc.).	1st Stage - Maximum operating pressure and minimum temperature. [psig and °F]	2nd Stage - Maximum operating pressure and minimum temperature, if applicable. [psig and °F]

5(d)(ii)	5(d)(iii)		5(e)	5(e)(i)	5(e)(ii)
2nd Stage - describe where flash emissions from this stage are routed. [if applicable]	Does the final separator stage feature a device or design on the liquid outlet line to prevent unintentional gas carry-through during a liquid dump event? [Yes or No]	If yes, provide a narrative description.	Is there an intermediate separation vessel(s) between the initial separator and the oil storage tank? [Yes or No]	Intermediate separation vessel - Maximum operating pressure and minimum temperature. [psig and °F, if applicable]	Describe where flash emissions from the intermediate separation vessel(s) are routed. [if applicable]

5(f)	5(g)	5(h)	5(i)	5(j)(i)	5(j)(ii)
Separator outlet pipe interior diameter from the separation vessel immediately upstream of the oil storage tank. [inches]	Separator outlet pipe orifice plate diameter from the separation vessel immediately upstream of the oil storage tank. [inches]	Describe whether the produced oil is trucked or piped offsite from the oil storage tank. If neither, provide an explanation.	Is the flow of oil from the separation vessel immediately upstream of the oil storage tank continuous or in intermittent batches?	If intermittent batches, what triggers a liquid dumping event?	Maximum oil volume of the separation vessel immediately upstream of the oil storage tank. [barrels]

5(j)(iii)(1) ... or ...			
Average daily Oil Production from PDC's COGIS 2014 Data. [barrels/day]	Dumping frequency based on average daily oil production. [dumping events/day]	Duration of a dumping event. [minutes]	Instantaneous flow rate. [barrels/minute]

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